(M)SDS Format :	ANSI 🗢
	PDF Copy E-mail
Devcor	6
MSDS Name	DEVCON® Titanium Putty
Manufacturer Name	ITW Polymers Adhesives, North America
Stock No.:	10760
Kit MSDS Revision Date	12/30/2012

Components	
	TITANIUM PUTTY RESIN
	TITANIUM PUTTY HARDENER
ITW Polymers Adhesives, North America Product Code: 10760	

SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Name:	TITANIUM PUTTY RESIN	HMIS	
Manufacturer Name:		Health Hazard	2*
Manufacturer Manie.	TIW FOIGHTETS Autlesives, North Antenda		
Address:	30 Endicott Street Danvers, MA 01923	Fire Hazard	1
General Phone Number:	(978) 777-1100	Reactivity	1
Emergency Phone Number:	(800) 424-9300	Personal Protection	x
CHEMTREC:	For emergencies in the US, call CHEMTREC: 800-424- 9300	* Chronic Heal Effects	th
MSDS Revision Date:	12/30/2012	Liects	

SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENTS
--

Chemical Name	CAS#	Ingredient Percent
Silicon	7440-21-3	5 - 10 by weight
Magnesium silicate hydrate	14807-96-6	5 - 10 by weight
Iron	7439-89-6	30 - 60 by weight
Titanium	7440-32-6	1 - 5 by weight
Bisphenol A diglycidyl ether resin	25068-38-6	10 - 30 by weight
Inert material	N/A	1 - 5 by weight
Fillers	N/A	1 - 5 by weight

SECTION 3 : HAZARDS IDENTIFICATION

Emergency Overview:	WARNING! Potential Sensitizer. Irritant.
Route of Exposure:	Eyes. Skin. Inhalation. Ingestion.
Potential Health Effects:	
Eye:	Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury
Skin:	Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.
Inhalation:	Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects. May cause respiratory sensitization with asthma-like symptoms in susceptible individuals.
Ingestion:	Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.
Chronic Health Effects:	Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction.
Signs/Symptoms:	Overexposure can cause headaches, dizziness, nausea, and vomiting.
Target Organs:	Eyes. Skin. Respiratory system. Digestive system.
Aggravation of Pre-Existing Conditions:	Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

SECTION 4 : FIRST AID MEASURES Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention. Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists. Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention. Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION 5 : FIRE FIGHTING MEASURES

>400°F (204.4°C)
Pensky-Martens Closed Cup
Not determined.
Not determined.
Not determined.
Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.
Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.
Water or foam may cause frothing.
As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization Heating above 300 deg F in the presence of air may cause slow oxidative decomposition and above 500 deg F may cause polymerization.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Spill Cleanup Measures:	Absorb spill with inert material (e,g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue. Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper personal protective equipment as listed in section 8.
Personnel Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
Environmental Precautions: Other Precautions:	Avoid runoff into storm sewers, ditches, and waterways. Pump or shovel to storage/salvage vessels.

SECTION 7 : HANDLING and STORAGE

Handling:	Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use.
Special Handling Procedures:	Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product.
Hygiene Practices:	Wash thoroughly after handling.

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
Skin Protection Description:	Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.
Respiratory Protection:	A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborme concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an

Other Protective:	uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.
EXPOSURE GUIDELINES	
Silicon:	
Guideline ACGIH:	
Guideline OSHA:	15 mg/m3 PEL-TWA: 15 mg/m3 Total particulate/dust (T) PEL-TWA: 5 mg/m3 Respirable fraction (R)
Magnesium silicate hydrate:	
Guideline ACGIH:	2 mg/m3 TLV-TWA: 1 mg/m3 Respirable fraction (R) TLV-TWA: 2 mg/m3 Respirable fraction (R)
Guideline OSHA:	20 mppcf PEL-TWA: 20 mppcf
Notes :	Only established PEL and TLV values for the ingredients are listed.

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance:	Viscous. Liquid
Odor:	Slight. odor.
Boiling Point:	>500°F (260°C)
Melting Point:	Not determined.
Specific Gravity:	2.5
Solubility:	negligible.
Vapor Density:	>1 (air = 1)
Vapor Pressure:	0.03 mmHg @171°F
Percent Volatile:	0
Evaporation Rate:	<<1 (butyl acetate = 1)
pH:	Neutral.
Molecular Formula:	Mixture
Molecular Weight:	Mixture
Flash Point:	>400°F (204.4°C)
5	

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability: Hazardous Polymerization:	Stable under normal temperatures and pressures. Not reported.
Conditions to Avoid:	Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Heating resin above 300 F in the presence of air may cause slow oxidative decomposition.
Incompatible Materials:	Strong Lewis or mineral acids, strong oxidizing agents, strong mineral and organic bases (especially primary and secondary aliphatic amines).

SECTION 11 : TOXICOLOGICAL INFORMATION

Silicon:		
RTECS Number:	VW040000	
Eye:	Eye - Rabbit Standard Draize test.: 3 mg	
Ingestion:	Oral - Rat LD50: 3160 mg/kg [Details of toxic effects not reported other than lethal dose value]	
Magnesium silicate hydrate:		
RTECS Number:	WW2710000	
Skin:	Administration onto the skin - Human : 300 ug/3D (Intermittent)	
Iron:		
RTECS Number:	NO4565500	
Ingestion:	Oral - Rat LD50: 30 gm/kg [Nutritional and Gross Metabolic - Weight loss or decreased weight gain]	
RTECS Number:	XR1700000	
Bisphenol A diglycidyl ether resin:		
RTECS Number:	SL6480000	
Skin:	Administration onto the skin - Rat LD : >2 gm/kg [Nutritional and Gross Metabolic - Other changes]	

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:	No ecotoxicity data was found for the product.
Environmental Fate:	No environmental information found for this product.

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal:

Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines. None.

RCRA Number:

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name:	Non regulated.
DOT UN Number:	N/A
DOT Hazard Class:	Not applicable.
DOT Packing Group:	Not applicable.

SECTION 15 : REGULATORY INFORMATION

Silicon :	
TSCA Inventory Status:	Listed
Massachusetts:	Listed
Pennsylvania:	Listed
Canada DSL:	Listed
Magnesium silicate hydrate :	
TSCA Inventory Status:	Listed
Massachusetts:	Listed
Pennsylvania:	Listed
Canada DSL:	Listed
Iron :	
TSCA Inventory Status:	Listed
Canada DSL:	Listed
<u>Titanium</u> :	
TSCA Inventory Status:	Listed
Canada DSL:	Listed
Bisphenol A diglycidyl ether re	i <mark>sin</mark> :
TSCA Inventory Status:	Listed
Canada DSL:	Listed
Canadian Regulations.	WHMIS Hazard Class(es): D2B All components of this product are on the Canadian Domestic Substances List.

SECTION 16 : ADDITIONAL INFORMATION

HMIS Fire Hazard:	1
HMIS Health Hazard:	2*
HMIS Reactivity:	1
HMIS Personal Protection:	х
MSDS Revision Date:	12/30/2012
MSDS Author:	Actio Corporation

Copyrightïż 1996-2011 Actio Software Corporation. All Rights Reserved.

SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Name:	TITANIUM PUTTY HARDENER	HMIS	
Manufacturer Name:	ITW Polymers Adhesives, North America	Health Hazard	3*
Address:	30 Endicott Street Danvers, MA 01923	Fire Hazard	1
General Phone Number:	(978) 777-1100	Reactivity	1
Emergency Phone Number:	(800) 424-9300	Personal Protection	x
CHEMTREC:	For emergencies in the US, call CHEMTREC: 800-424- 9300	* Chronic Heal Effects	th
MSDS Revision Date:	12/30/2012	Liecta	

SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENTS		
Chemical Name	CAS#	Ingredient Percent
Formaldehyde polymer with phenol and TETA	32610-77-8	10 - 30 by weight

Iron	7439-89-6	10 - 30 by weight
Magnesium silicate hydrate	14807-96-6	10 - 30 by weight
Phenol	108-95-2	5 - 10 by weight
Non-hazardous ingredients.	Not applicable	5 - 10 by weight
2-Ethyl-4-Methylimidazole	931-36-2	5 - 10 by weight
Silicon	7440-21-3	1 - 5 by weight
Inert material	Not applicable	1 - 5 by weight
Titanium dioxide	13463-67-7	1 - 5 by weight
Titanium	7440-32-6	1 - 5 by weight
Crystalline silica	14808-60-7	0.1 - 1 by weight
Triethylenetetramine	112-24-3	1 - 5 by weight

SECTION 3 : HAZARDS IDENTIFICATION

Emergency Overview: Route of Exposure:	DANGER! Corrosive. Potential Sensitizer Irritant. Eyes. Skin. Inhalation. Ingestion.
Potential Health Effects:	
Eye:	Corrosive. Will cause eye burns, permanent tissue damage, and blindness.
Skin:	Contact causes severe skin irritation and possible burns. may cause permanent skin damage. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.
Inhalation:	May cause severe respiratory system irritation. May cause respiratory sensitization with asthma-like symptoms in susceptible individuals.
Ingestion:	Harmful if swallowed. Corrosive to the gastrointestinal tract.
Chronic Health Effects:	Prolonged skin contact causes burns. Repeated or prolonged inhalation may cause toxic effects.
Signs/Symptoms:	Depending on solution concentration, material may be corrosive to skin, mucous membranes and eyes. Vapors may cause respiratory irritation.
Target Organs:	Eyes. Skin. Respiratory system. Digestive system. Central nervous system.
Aggravation of Pre-Existing Conditions:	Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 minutes Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.
Skin Contact:	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
Other First Aid:	Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration.

SECTION 5 : FIRE FIGHTING MEASURES

Flammable Properties:	Class III B.
Flash Point:	277°F (136.1°C)
Flash Point Method:	Pensky-Martens Closed Cup
Auto Ignition Temperature:	Not determined.
Lower Flammable/Explosive Limit:	Not determined.
Upper Flammable/Explosive Limit:	Not determined.
Fire Fighting Instructions:	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.
Extinguishing Media:	Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.
Unsuitable Media:	Water or foam may cause frothing.
Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Spill Cleanup Measures: Absorb spill with inert material (e,g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Clean up spills immediately

	observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue. Corrosive. Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper personal protective equipment as listed in section 8.
Personnel Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
Other Precautions:	Pump or shovel to storage/salvage vessels.

Handling:	Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Avoid contact with eyes and skin. Do not reuse containers without proper cleaning or reconditioning.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use. Do not store in reactive metal containers. Keep away from acids, oxidizers.
Special Handling Procedures:	Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product.
Hygiene Practices:	Wash thoroughly after handling.

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
Skin Protection Description:	Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.
Respiratory Protection:	A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Other Protective:	Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.
EXPOSURE GUIDELINES	
Magnesium silicate hydrate:	
Guideline ACGIH:	2 mg/m3 TLV-TWA: 1 mg/m3 Respirable fraction (R) TLV-TWA: 2 mg/m3 Respirable fraction (R)
Guideline OSHA:	20 mppcf PEL-TWA: 20 mppcf
Phenol:	
Guideline ACGIH:	5 ppm Skin: Yes. TLV-TWA: 5 ppm
Guideline OSHA:	5 ppm Skin: Yes. PEL-TWA: 5 ppm
Silicon:	
Guideline ACGIH:	
Guideline OSHA:	15 mg/m3 PEL-TWA: 15 mg/m3 Total particulate/dust (T) PEL-TWA: 5 mg/m3 Respirable fraction (R)
<u>Titanium dioxide</u> :	
Guideline ACGIH:	10 mg/m3 TLV-TWA: 10 mg/m3
Crystalline silica:	
Guideline ACGIH:	0.025 mg/m3 TLV-TWA: 0.025 mg/m3 Respirable fraction (R)
Guideline OSHA:	[10 mg/m3]/[{% SiO2} + 2]

Only established PEL and TLV values for the ingredients are listed.

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance:
Color:
Odor:
Boiling Point:
Melting Point:
Specific Gravity:

Notes :

Paste.. off-white. Ammoniacal. >350°F (176.6°C) Not determined. 1.78

Solubility:
Vapor Density:
Vapor Pressure:
Percent Volatile:
Evaporation Rate:
pH:
Molecular Formula:
Molecular Weight:
Flash Point:
Flash Point Method:
Auto Ignition Temperature:
VOC Content:
Percent Solids by Weight

Appreciable. Not determined. <10.4 mmHg @70°F 0 Not determined. 9.5-10.0 @ 5 Percent Solution Mixture 277°F (136.1°C) Pensky-Martens Closed Cup Not determined. 0 g/L 100

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability: Hazardous Polymerization:	Stable under normal temperatures and pressures. Not reported.
Conditions to Avoid:	Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Product may slowly corrode copper, aluminum, zinc and galvanized surfaces.
Incompatible Materials:	Oxidizers, acids, and chlorinated organic compounds. Reactive metals (e.g. sodium, calcium, zinc). Sodium/calcium hypochlorite. Nitrous acid/ oxide, nitrites. Peroxides. Materials reactive with hydroxyl compounds.

SECTION 11 : TOXICOLOGICAL INFORMATION

Iron:	
RTECS Number:	NO4565500
Ingestion:	Oral - Rat LD50: 30 gm/kg [Nutritional and Gross Metabolic - Weight loss or decreased weight gain]
<u>Magnesium silicate hydrate</u> :	
RTECS Number:	WW2710000
Skin:	Administration onto the skin - Human : 300 ug/3D (Intermittent)
Phenol:	
RTECS Number:	SJ3325000
Eye:	Eye - Rabbit Standard Draize test.: 5 mg Eye - Rabbit Rinsed with water.: 5 mg/30S
Skin:	Administration onto the skin - Rat : 669 mg/kg [Behavioral - Tremor Kidney/Ureter/Bladder - Hematuria Skin and Appendages - Cutaneous sensitization, experimental (After topical exposure)] Administration onto the skin - Mouse : 329 mg/kg/30M [Skin and Appendages - Primary irritation (After topical exposure) Biochemical - Metabolism (Intermediary) - Other Biochemical - Metabolism (Intermediary) - Effect on inflammation or mediation of inflammation] Administration onto the skin - Rabbit : 630 mg/kg [Details of toxic effects not reported other than lethal dose value] Administration onto the skin - Rat : 1500 mg/kg [Details of toxic effects not reported other than lethal dose value] Administration onto the skin - Rabbit : 535 mg Administration onto the skin - Rabbit : 100 mg Administration onto the skin - Mouse : 16 gm/kg/40W (Intermittent) [Tumorigenic - carcinogenic by RTECS criteria Skin and Appendages - Tumors] Administration onto the skin - Mouse : 4000 mg/kg/24W (Intermittent) [Tumorigenic - neoplastic by RTECS criteria Skin and Appendages - Tumors]
Inhalation :	Inhalation - Mouse LC50: 177 mg/m3 [Details of toxic effects not reported other than lethal dose value] Inhalation - Rat LC50: 316 mg/m3 [Details of toxic effects not reported other than lethal dose value] Inhalation - Mouse LC50: 177 mg/m3/4H [Details of toxic effects not reported other than lethal dose value] Inhalation - Rat LC50: 316 mg/m3/4H [Details of toxic effects not reported other than lethal dose value]
Ingestion:	Oral - Rat LD50: 317 mg/kg [Behavioral - Convulsions or effect on seizure threshold] Oral - Mouse LD50: 270 mg/kg [Details of toxic effects not reported other than lethal dose value] Oral - Rat LD50: 512 mg/kg [Details of toxic effects not reported other than lethal dose value]
RTECS Number:	NI6147500
Silicon:	
RTECS Number:	VW0400000
Eye:	Eye - Rabbit Standard Draize test.: 3 mg
Ingestion:	Oral - Rat LD50: 3160 mg/kg [Details of toxic effects not reported other than lethal dose value]
<u>Titanium dioxide</u> :	
RTECS Number:	XR2275000
Skin:	Administration onto the skin - Human : 300 ug/3D (Intermittent)
Carcinogenicity:	IARC: Group 2B: Possibly carcinogenic to humans.
RTECS Number:	XR1700000
Crystalline silica:	
RTECS Number:	VV7330000
Carcinogenicity:	IARC: Group 1: Carcinogenic to humans. NTP: Reasonably anticipated to be a human carcinogen.
This the day of a tax we in a c	
Triethylenetetramine:	

Eye:	Eye - Rabbit Standard Draize test.: 49 mg Eye - Rabbit Standard Draize test.: 20 mg/24H
Skin:	Administration onto the skin - Rabbit LD50: 805 mg/kg [Details of toxic effects not reported other than lethal dose value] Administration onto the skin - Rabbit Open irritation test: 490 mg Administration onto the skin - Rabbit Standard Draize test.: 5 mg/24H Administration onto the skin - Guinea pig TDLO: 3667 mg/kg [Reproductive - Effects on Embryo or Fetus - Fetal death]
Ingestion:	Oral - Rat LD50: 2500 mg/kg [Details of toxic effects not reported other than lethal dose value] Oral - Mouse LD50: 38.5 mg/kg [Details of toxic effects not reported other than lethal dose value]

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:	No ecotoxicity data was found for the product.
Environmental Fate:	No environmental information found for this product.

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name:Refer to Bill of LadingDOT UN Number:Refer to Bill of Lading

SECTION 15 : REGULATORY INFORMATION

TSCA Inventory Status:

Listed

Formaldehyde polymer with p	henol and TETA :
TSCA Inventory Status:	Listed
Canada DSL:	Listed
Iron :	
TSCA Inventory Status:	Listed
Canada DSL:	Listed
Magnesium silicate hydrate :	
TSCA Inventory Status:	Listed
Massachusetts:	Listed
Pennsylvania:	Listed
Canada DSL:	Listed
Phenol:	
TSCA Inventory Status:	Listed
SARA:	EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
Section 302 EHS:	EPCRA (SARA Title III) Section 302 (40 CFR Part 355) Extremely Hazardous Substances (EHS) Threshold Planning Quantity (TPQ) in pounds.: 500/10,000 Lbs.
Section 304 RQ:	EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances (EHS) Reportable Quantities (RQ) in pounds.: 1,000 Lbs.
New Jersey:	Listed: NJ Hazardous List; Substance Number: 1487
Massachusetts:	Listed: Massachusetts Oil and Hazardous List
Pennsylvania:	Listed
Canada DSL:	Listed
2-Ethyl-4-Methylimidazole :	
TSCA Inventory Status:	Listed
Canada DSL:	Listed
Silicon :	
TSCA Inventory Status:	Listed
Massachusetts:	Listed
Pennsylvania:	Listed
Canada DSL:	Listed
<u>Titanium dioxide</u> :	
TSCA Inventory Status:	Listed
Massachusetts:	Listed
Pennsylvania:	Listed
Canada DSL:	Listed
<u>Titanium</u> :	
TSCA Inventory Status:	Listed
Canada DSL:	Listed
Crystalline silica :	
TSCA Inventory Status:	Listed
Massachusetts:	Listed
Pennsylvania:	Listed
Canada DSL:	Listed
Triethylenetetramine :	

Massachusetts: Pennsylvania: Canada DSL: Canadian Regulations.

Listed Listed Listed WHMIS Hazard Class(es): D2B; E; D2A

. . _ .

WHMIS Pictograms



SECTION 16 : ADDITIONAL INFORMATION

HMIS Fire Hazard:	1
HMIS Health Hazard:	3*
HMIS Reactivity:	1
HMIS Personal Protection:	х
MSDS Revision Date:	12/30/2012
MSDS Revision Notes:	"PhysChem change - Corrosive"
MSDS Author:	Actio Corporation

Copyrightïż½ 1996-2011 Actio Software Corporation. All Rights Reserved.